

ANIONIC FUNCTIONAL PROMOTER AND CHARGE CONTROL AGENT WITH IMPROVED WET TO DRY TENSILE STRENGTH RATIO

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Cited documents:



WO2004001129
US6264791
US3844880
US5750489
US4517285

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Abstract of WO2004072376

The invention relates to a composition comprising (a) a functional promoter comprising a water-soluble anionic polymer having a molecular weight of at least about 50,000 daltons and a molecular weight charge index value of at least about 10,000; (b) a cationic surfactant component; such that when the composition treats a fibrous substrate, in conjunction with a cationic strength agent, the treated fibrous substrate exhibits (i) a ratio of wet tensile strength to dry tensile strength ranging from about 1:5 to about 1:2 and (ii) an increase in a ratio of wet tensile strength to dry tensile strength of at least about 10%, as compared to when the fibrous substrate is treated with the functional promoter and without a surfactant. The invention also relates to a paper product made with such a system, and method for imparting wet strength to a paper product with the functional promoter.

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